Interference

Search

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	6538	(table\$1 or spreadsheet\$1 or (spread adj sheet\$1) or catalog\$3 or list\$1) and ((row\$1 or column\$1) with (expand\$3 or compress\$3 or contract\$3 or merg\$3 or abbreviat\$3 or summar\$5 or consolodat\$3))	US-PGPUB	OR	OFF	2007/02/08 11:28
L2	1405	1 and @ad<="20020131"	US-PGPUB	OR	OFF	2007/02/08 11:28
L3	38	2 and (group\$3 near (attribute\$1 or value\$1))	US-PGPUB	OR	OFF	2007/02/08 11:34
L4	1	2 and ((group\$3 and expand\$3) near (attribute\$1 or value\$1))	US-PGPUB	OR	OFF	2007/02/08 11:35



Gogle Advanced Scholar Search Advanced Search Tips | About Google Scholar Scholar BETA

Find articles	with all of the words	rows columns tables expandin 50 results	<u> </u>	Search Schola
	with the exact phrase			
	with at least one of the words	spreadsheets format layout att		
	without the words			
	where my words occur	anywhere in the article <u>▼</u>		
Author	Return articles written by		-	
		e.g., "PJ Hayes" or McCarthy		
Publication	Return articles published in	e.g., J Biol Chem or Nature		
Date	Return articles published between	e.g., 1996		
Subject Areas	Return articles in all subject a	reas.		
	C Return only articles in the follo	owing subject areas:		
•	□ Biology, Life Sciences, and	d Environmental Science		
	☐ Business, Administration,	Finance, and Economics		
	☐ Chemistry and Materials S	Science		
	☐ Engineering, Computer So	cience, and Mathematics		
	☐ Medicine, Pharmacology,	and Veterinary Science		·
	Physics, Astronomy, and F	Planetary Science		
	☐ Social Sciences, Arts, and			

©2007 Google



rows columns tables expanding collapsing spr

Search

C Search the Web © Search English pages

Scholar All articles Recent articles Results 1 - 50 of about 1,380 English pages for rows columns tables 6

All Results

T Bickmore

E Kandogan

G Banavar

E Greisen

B Schilit

Information flow based event distribution middleware

G Banavar, M Kaplan, K Shaw, RE Strom, DC Sturman, ... - Electronic Commerce and Webbased Applications/Middleware, ..., 1999 - ieeexplore.ieee.org

... Tagged transforms can be stored in a table for lookup ... 4.2 Expanding State to Event Streams ... identical rules discussed in the illustration of collapse in Section ...

Cited by 46 - Related Articles - Web Search

... operations for perspective transformations on relational tables using pivot and unpivot columns - group of 3 »

G Graefe, J Alger - US Patent 6,298,342, 2001 - Google Patents

... internal operation for splitting each item of a table update having ... delete item" and an "insert item" which interchanges certain row and column values, and ...

Cited by 20 - Related Articles - Web Search

Method, computer program product, and system for creating and displaying a categorization table - group of 3 »

DA Shakib, WH Rockenbeck, ML Benson, MM Joshi - US Patent 5,752,025, 1998 - Google Patents

... will be unique and the row will also ... particularview ofthe categorizationtable Aplurality ofuser columns in the ... is located in relation to the entire table. This ...

Cited by 9 - Related Articles - Web Search

Implementation of Conditional Branching in Computerized Self-Administered Questionnaires - group of 4 »

KL Norman - Laboratory for Automation Psychology, University of Maryland ..., 2001 hcil.cs.umd.edu

... two parameters of tabular surveys: the number of rows (elements) and the number of columns (questions ... Table 1 lists a number of these designs along with an ... Cited by 1 - Related Articles - View as HTML - Web Search

A Tribute to J. Bertin's Graphical Data Analysis - group of 3 »

A de Falquerolles, F Fredrich, G Sawitzki - SoftStat, 1997 - statlab.uni-heidelberg.de ... by a correspondence analysis be used for a ranking of rows and columns in a ... analyse more complex data sets than a two way contingency table, thus providing ... Cited by 2 - Related Articles - View as HTML - Web Search

Spreadsheets: Faster, Smarter.

DH Luthy - Journal of Accountancy, 1994 - questia.com

... model graphically without the conventional row, column or cell ... and results of series or table calculations can be ... and unique functions that expand and simplify ... Web Search - BL Direct

[BOOK] PHP and MySQL Web development - group of 9 »

L Welling, L Thomson - 2001 - go.theregister.com

... Grouping and Aggregating Data. Choosing Which Rows to Return. ... Getting Information About Columns with DESCRIBE. ... Permissions. Table Optimization. Using Indexes. ...

Cited by 36 - Related Articles - Cached - Web Search - Library Search

Add Perspective to Spreadsheets

JF Lacher - Journal of Accountancy, 1998 - questia.com ... in exhibit 9. Likewise, drag Division to the **ROW** space and ... it to the right of the Division **column** and the ... still providing a summary at the bottom of the **table**. ... Web Search - BL Direct

<u>Development of HDF Browser for the Utilization of EOC Imagery - group of 3</u>

HK Seo, SB Ahn, EC Park, KS Hahn, JS Choi, C Kim - Korean Journal of Remote Sensing, 2002 - ieg.or.kr

... data can be viewed as a series of two dimensional arrays **tables**. The user may select which dimension is the **columns**, which is the **rows**, and which is the ...

Related Articles - View as HTML - Web Search

Escalante: an environment for the rapid construction of visuallanguage applications - group of 3 »

JD McWhirter, GJ Nutt - Visual Languages, 1994. Proceedings., IEEE Symposium on, 1994 - ieeexplore.ieee.org

... ci 30 Verdi 1 50 Turthg 1 70 **Table** 1/2 ... classes that allow one to group and **layout** collections of ... attribute values within a visual element and **attributes** of the ... Cited by 26 - Related Articles - Web Search

Hierarchical structure editor for web sites - group of 2 »

S Arora, G Arora, R Lakshminarayan, G Brown, M ... - US Patent 5,911,145, 1999 - Google Patents

... First Child Number Current Layout Stacked Flag ... parent (and all children) to False Collapse a branch Fig. ... parent (and all children) to True Expand a branch Fig. ... Cited by 38 - Related Articles - Web Search

Web Page Filtering and Re-Authoring for Mobile Users - group of 10 »

T Bickmore, A Girgensohn, JW Sullivan - The Computer Journal, 1999 - Br Computer Soc ... which the user can dynamically **expand** and **collapse** ... uses heuristics to determine when

table columns are being ... shows a nested table, marking tables with thicker ... Cited by 46 - Related Articles - Web Search - BL Direct

Apparatus and method for implementing visual animation illustrating results of interactive editing ... - group of 3 »

TP Moran, P Chiu, W Van Melle, G Kurtenbach - US Patent 5,880,743, 1999 - Google Patents

... 95 VISUAL DISPLAY OF PROCESS OF CHANGE (ANIMATION) FIG. 6 I r TABLE LOOK UP -90

5,880,743 -86 ERROR MESSAGE DISPLAYED IDENTIFY INFO DEFINED BY GESTURE ...

Cited by 12 - Related Articles - Web Search

<u>Visualizing multi-dimensional clusters, trends, and outliers using star coordinates - group of 3 »</u>

E Kandogan - Proceedings of the seventh ACM SIGKDD international ..., 2001 - portal acm.org

... Matrices [2], which allows users to rearrange **rows** and **columns** to discover ... is also a natural way to interact with hierarchically **expanding** and **collapsing** ...

Cited by 58 - Related Articles - Web Search

JOSIT user manual

MA Chisholm - 2001 - downloads openchannelsoftware org ... One of the accessible attributes every Swing widget has is ... a list of open windows, in the format described in ... keyboard, that are not listed in the above table ... Cited by 1 - Related Articles - View as HTML - Web Search

<u>Visualization exploration and encapsulation via a spreadsheet-like interface</u> - group of 13 »

TJ Jankun-Kelly, KL Ma - IEEE Transactions on Visualization and Computer Graphics, 2001 - doi.ieeecomputersociety.org

... Using volume visualization as an example, the **rows** could display color maps while the **columns** show opacity ... by rendered glyphs in the **table** headers (Fig ... Cited by 32 - Related Articles - Web Search

Representations of world coordinates in FITS - group of 19 »

EW Greisen, MR Calabretta - Arxiv preprint astro-ph/0207407, 2002 - arxiv org ... 0 indicates a world coordinate of integral type, then **row** i 0 of ... for example, **table** lookups require the names of the **table** extension and the **columns** to be ... Cited by 54 - Related Articles - View as HTML - Web Search - BL Direct

Homogeneity of Subpopulations and Simpson's Paradox - group of 2 »

Y Mittal - Journal of the American Statistical Association, 1991 - JSTOR ... 3.1), and hence the subpopulations are **row** homogeneous ... of the argument, they must be **column** homogeneous as ... of Multidimensional Contin- gency **Tables**," Journal of ... Cited by 19 - Related Articles - Web Search

<u>Framework for Modeling Dependencies in Collaborative Engineering</u> Processes

H Park, MR Cutkosky - Research in Engineering Design, 1999 - Springer ... Thirdly the model offers a mechanism for improving a process through **row** and **column** operations ... of the DR elements and their semantics is provided in **Table 1** ... Cited by 41 - Related Articles - Web Search - BL Direct

The hybrid field-programmable architecture - group of 6 »

A Kaviani, S Brown - Design & Test of Computers, IEEE, 1999 - ieeexplore.ieee.org ... Since we are using 4-LUTs, it is reasonable to base the PALB on the K = 4 row, and for reasons dis ... The data in the "filtered" columns in Table 1 jus ... Cited by 17 - Related Articles - Web Search - BL Direct

A Spreadsheet Interface for Visualization Exploration - group of 13 » TJ Jankun-Kelly, KL Ma - Proc. Visualization, 2000 - doi.ieeecomputersociety.org ... flow, re- spectively) of a turbulent flow simulation data set together; the new maps are automatically added to the table ... row and column parameters; it ... Cited by 8 - Related Articles - Web Search

<u>Digestor: Device-Independent Access to the World Wide Web</u> - group of 8 » TW Bickmore, BN Schilit - WWW6 / Computer Networks, 1997 - decweb ethz.ch ... technique, in which the user can dynamically **expand** and **collapse ... tables**, applets, shockwave plug-ins, etc.); folding of **table rows** or **columns**; re-formatting ... Cited by 171 - Related Articles - Cached - Web Search

[воок] The Maple Book - group of 3 »

F Garvan - 2001 - books.google.com

... 135 7.14.1 Packages as tables 135 ... 201 9.7 Systems of linear equations 201 9.8 Row space, column space, and nulispace 205 9.9 Eigenvectors and diagonalization ... Cited by 19 - Related Articles - Web Search - Library Search

More on Contingency Table Analysis, Decision Making Criteria, and the Use of Log Linear Models

GA Clark - American Antiquity, 1976 - JSTOR

... Columns correspond to sites (6); blocks correspond to distance (2); rows correspond to all ... The Fienberg approach was applied first to the table. ... Web Search

Web-based Interactive Database Query Builder - group of 2 »

R Morgan - 2002 - cs.bris.ac.uk

... Conditions specified on distinct rows are connected by ... the template (or templates) under the appropriate columns. ... query (figure 6). Joining tables is achieved ... Related Articles - View as HTML - Web Search

Qualitative housing choice modelling: Decision plan nets versus decision tables

F Witlox - Journal of Housing and the Built Environment, 1995 - Springer ... Table contraction is one possibility, row order optimization ... Table contraction (or rule collapsing) refers to the minimization of the number of columns for a ... Cited by 5 - Related Articles - Web Search - BL Direct

Method and apparatus for performing data collection, interpretation and analysis, in an information ... - group of 3 »

RD Ainsbury, HK Al Hussein, MC Hinnant, MM Lahham, ... - US Patent 6,078,924, 2000 Google Patents

... Speci fy Tool Specify Case Specify Format 222-S W y ^226 \ 223- S| j N FIG. 4 Page 7. ... unique identifiers and creates a routing table which is used ...

Cited by 66 - Related Articles - Web Search

Power browser: efficient Web browsing for PDAs - group of 9 »

O Buyukkokten, H Garcia-Molina, A Paepcke, T ... - Proceedings of the SIGCHI conference on Human factors in ..., 2000 - portal.acm.org

... Expanding a node of the tree results in a request to the Power Browser proxy. ... Table rows and columns are folded into text blocks as well ...

Cited by 177 - Related Articles - Web Search - BL Direct

A Basis for Scaling Qualitative Data

L Guttman - American Sociological Review, 1944 - JSTOR ... used in practical procedures are simply devices for shifting rows and columns to find a ... A tetrachoric coefficient for the four-fold table above, assuming a ... Cited by 148 - Related Articles - Web Search

Modeling the Data Warehouse and Data Mart

P Winsberg - Info DB Articles, 1996 - evaltech.com ... For this rea- son, it is often a good idea to convert column-wise designs to row-wise in the warehouse model. ... Try to organize columns in tables according to ... Cited by 2 - Related Articles - Web Search - BL Direct

гвоок Modern applied statistics with S - group of 11 » WN Venables, BD Ripley - 2002 - massey.ac.nz

... 27 2.4 Tables and Cross-Classification attach(hills) Make columns available by name. plot(dist, time) identify(dist, time, row.names(hills)) ... Cited by 606 - Related Articles - View as HTML - Web Search - Library Search

A unified relational approach to grid information services - group of 23 » P Dinda, B Plale - Grid Forum Informational Draft GWD-GIS-012-1, 2002 - cs.nwu.edu ... for type extensibility— we can add new columns to tables), the types are ... above

has some support for this, in that rows or columns have explicit ...

Cited by 40 - Related Articles - View as HTML - Web Search

Database graphical user interface with outline view - group of 2 »

R Webster, B Reichle - US Patent 5,874,953, 1999 - Google Patents

... Each intersection of a topic row and user identifying column ... may be scrolled on a column by column basis, 30 or ... fifth GUI 292 may also have expand and collapse ... Cited by 9 - Related Articles - Web Search

[воок] Applied Dimensional Analysis and Modeling - group of 4 »

T Szirtes - 1997 - books.google.com

... C, One Row is a Multiple of Another Row 255 10.6 ... of Selected Theorems and Equations 770 8 Blank Modeling Data Table 775 ... 12/4 Critical axial load on columns 330 ... Cited by 54 - Related Articles - Web Search - Library Search

Twelve-row punched-card code for information interchange

S Gorn - Communications of the ACM, 1966 - portal.acm.org

... Table D2 shows this translation ... column, rather than by recognition of the entire hole-pattern in that column. ... A numeric punch is a punch in rows 1, 2.3, 4, 5, 6 ... Web Search

Database graphical user interface with tabbed user view - group of 2 » N Lerissa, D McCusker, W March - US Patent 5,949,413, 1999 - Google Patents ... Each intersection of a topic row and user identifying column ... may be scrolled on a column by column basis, or on ... fifth GUI 292 may also have expand and collapse ... Cited by 6 - Related Articles - Web Search

A test chip design for detecting thin-film cracking in integrated circuits - group of 4 »

SA Gee, MR Johnson, KL Chen - Components, Packaging, and Manufacturing Technology, Part B: 1995 - ieeexplore.ieee.org

... the test software can be used to add or delete specific rows or columns from the ... This data was compiled from leg #1 of Table I (see the Experimental Summary ... Cited by 9 - Related Articles - Web Search - BL Direct

Graphical user interface and method for displaying hierarchically structured information - group of 2 »

DP Giles, LA Tweedie, GJ Jolliffe, J Coward, A ... - US Patent 6,437,812, 2002 - Google **Patents**

... This is done by collapsing or expanding parts of the hierarchical represen -tation. 48 Claims, 11 Drawing Sheets Page 2. File prp ID ... Related Articles - Web Search

[воок] The Complete Idiot's Guide to Microsoft Office XP

J Kraynak - 2001 - books.google.com

... 57 Make your text look pretty. 6Aligning Your Text with Columns and Tables

73 Arrange your text in neat little **rows** and **columns**. ... Web Search - Library Search

The separation and evaluation of personal and environmental contributions to behavior by the person- ... - group of 2 ».

RB Cattell - Multivariate Behavioral Research, 1980 - Lawrence Earlbaum ... of course, the seven **row** and **column** totals, n,, n,, n,, etc., derivable from them. **Table** 1 A Test-Situation Facet Matrix for One Person ... Cited by 2 - Related Articles - Web Search

A spreadsheet(Lotus 1-2-3) based technique for analysing storm suspended sediment data with ... - group of 2 »

T Greer, K Bidin, I Douglas - Earth Surface Processes and Landforms, 1998 - doi.wiley.com ... is then copied to the rest of the **column** H cells. ... example of the spreadsheet calculation is shown in **Table** IV. ... Finally, **row** 6 is to convert all the formulae to ... Cited by 1 - Related Articles - Web Search - BL Direct

STORM: A Statistical Object Representation Model - group of 10 »

M Rafanelli, A Shoshani - Data Engineering Bulletin, 1990 - Ibl.gov ... two hierarchies for the **rows** and **columns**. The apparent conclusion is that a proper model should retain the concept ... \$1000, **tables** - \$500. ... Cited by 69 - Related Articles - View as HTML - Web Search

Star Coordinates: A Multi-dimensional Visualization Technique with Uniform Treatment of Dimensions - group of 3 »

E Kandogan - IEEE Symposium on Information Visualization 2000, 2000 - people.cs.vt.edu ... 4,5], Worlds within Worlds [6], **Table** Lens [7 ... PM), which allows users to rearrange **rows** and **columns** ... to examine the combined effects of multiple **columns** at once. ... Cited by 17 - Related Articles - View as HTML - Web Search

Coset enumeration strategies - group of 4 >>

G Havas - Arxiv preprint math.GR/9406202, 1994 - arxiv.org ... array was physically stored in logical **row** major order ... generator or inverse corresponding to **column** j on ... Felsch makes relatively fewer coset **table** accesses and ... Cited by 26 - Related Articles - View as HTML - Web Search - Library Search

MEDIATOR: TOWARDS A NEGOTIATION SUPPORT SYSTEM - group of 4

M Jarke, MT Jelassi, MF Shakun - 1985 - dspace.nyu.edu ... involves players adding additional **rows** to their respective targets, ... **Table I** by inserting **columns** uil and ui2 for i=1,2,3,4, ie, 8 **columns** ... Cited by 69 - Related Articles - View as HTML - Web Search

Database graphical user interface with user frequency view - group of 2 » US Patent 6.052,121, 2000 - freepatentsonline.com

... The **rows** of the two-dimensional **table** are either database records or file system entities, and the **columns** are, respectively, either database fields ... Cited by 5 - Related Articles - Cached - Web Search

Visual knowledge engineering - group of 10 »

M Eisenstadt, J Domingue, T Rajan, E Motta - Software Engineering, IEEE Transactions on, 1990 - ieeexplore ieee org ... which is supported by the **Tables** system, as ... or time according to specific **attributes**), and abstraction ... sacrifices fidelity to the geographical **layout** in order ...

http://scholar.google.com/scholar?as_q=rows+columns+tables+expanding+collapsing&num... 2/8/2007

Cited by 38 - Related Articles - Web Search

Database graphical user interface with calendar view - group of 2 »

R Webster, N Lerissa, D Magid, B Holt, N Durrant, ... - US Patent 5,898,431, 1999 - Google Patents

... [57] ABSTRACT Amethod and apparatus summarizes information in an easy and user-friendly

format in a database that stores topics and responses to those topics. ...

Cited by 9 - Related Articles - Web Search.

Combining palettes on a computer display - group of 2 »

DR Lazarony Jr, JK Ferraiolo, MJ Foster, NJ Nan - US Patent 5,870,091, 1999 - Google Patents

... TO 57 FIG. 13B 69- »Bring tab to foreground •Toggle expand/ collapse state of palette •Reposition any palettes docked below this palette 54B Do Nothing ...

Cited by 10 - Related Articles - Web Search

Class, Mobility and Merit: The Experience of Two British Birth Cohorts - group of 5 »

R Breen, JH Goldthorpe - European Sociological Review, 2001 - Oxford Univ Press ... on this item. The ¢gures in the sixth **row** are for ... Thirdly, **Tables** 2 and 3 reveal the ejects of ... structure. The dijer- ences in the **column** marginal distributions ... Cited by 55 - Related Articles - Web Search

Gooooooogle >

Result Page: 1 2 3 4 5 6 7 8 9 10 Next

rows columns tables expanding colla Search

Google Home - About Google - About Google Scholar

©2007 Google

PRTAL Search	e (Full Service) Register (Limited Service, Free) Login : • The ACM Digital Library C The Guide
USPTO	Advanced Search Tips
nter words, phrases or names below. Surround ph	
Desired Results: must have all of the words or phrases rows columns expanding contracting must have any of the words or phrases spreadsheets tables formatting layout expanding must have none of the words or phrases Only search in:* C Title C Abstract C Review All Informat	Name or Affiliation: Authored
SBN / ISSN: © Exact C Expand	DOI: © Exact C Expand
Published:	Conference Proceeding:
By: ⑥ all C any C none	Sponsored By:
In: ⑥ all	Conference Location:
Since: Month Year	Conference Year: yyyy
January → 2002 →	·
As: Any type of publication -	SEARC
Classification: (CCS)	Results must have accessible:
Classified as: • all C any C none	☐ Full Text ☐ Abstract ☐ Review
Subject Descriptor: © all C any C none	
Keyword Assigned: © all C any C none	



Subscribe (Full Service) Register (Limited Service, Free) Login

Search: The ACM Digital Library C The Guide

+rows +columns +expanding +contracting spreadsheets table:

the acm digital library

Feedback Report a problem Satisfaction survey

Published before January 2002

Found 336 of

Terms used

rows columns expanding contracting spreadsheets tables formatting layout expanding

127,093

Sort results

by

Display results

relevance

expanded form

Save results to a Binder Search Tips Open results in a new

Try an Advanced Search Try this search in The ACM Guide

window

Results 1 - 20 of 200

Result page: 1 2 3 4 5 6 7 8 9 10

next

Relevance scale 🔲 📟

Best 200 shown

Toward a logical/physical theory of spreadsheet modeling Tomás Isakowitz, Shimon Schocken, Henry C. Lucas

January 1995 ACM Transactions on Information Systems (TOIS), Volume 13 Issue 1

Publisher: ACM Press

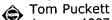
Full text available: Tpdf(2.76 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

In spite of the increasing sophistication and power of commercial spreadsheet packages, we still lack a formal theory or a methodology to support the construction and maintenance of spreadsheet models. Using a dual logical/physical perspective, we identify four principal components that characterize any spread sheet model: schema, data, editorial, and binding. We present a factoring algorithm for identifying and extracting these components ...

Keywords: model management

Implementation of an APL—based spreadsheet manager



January 1987 ACM SIGAPL APL Quote Quad, Proceedings of the international conference on APL: APL in transition APL '87, Volume 17 Issue 4

Publisher: ACM Press

Full text available: pdf(1.13 MB)

Additional Information: full citation, abstract, references, index terms

This paper describes the implementation of the STSC Spreadsheet Manager for users of STSC's APL*PLUS® PC System. The discussion is primarily from the standpoint of the product's internal workings. Important aspects are selection and interfacing of the languages to be used in the implementation (APL, C, and assembler), compatibility with Lotus® data structures, mappings between data in the APL and Lotus environments, manipulation of data in a spreadsheet context, and separation of fu ...

Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97

Publisher: IBM Press

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

Demonstrational and constraint-based techniques for pictorially specifying application



objects and behaviors

Brad Vander Zanden, Brad A. Myers

December 1995 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 2 Issue 4

Publisher: ACM Press

Full text available: pdf(3.70 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

The Lapidary interface design tool is a demonstrational system that allows the graphics and run-time behaviors that go inside an application window to be specified pictorially. In particular, Lapidary allows the designer to draw example pictures of application-specific graphical objects that the end user will manipulate (such as boxes, arrows, or elements of a list), the feedback that shows which objects are selected (such as small boxes on the sides and corners of an objec ...

Keywords: direct manipulation, interaction, interaction techniques, object-oriented design, programming by example, user interface management systems

5 Customizing information capture and access Daniela Rus, Devika Subramanian



January 1997 ACM Transactions on Information Systems (TOIS), Volume 15 Issue 1

Publisher: ACM Press

Full text available: 常 pdf(1.26 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

This article presents a customizable architecture for software agents that capture and access information in large, heterogeneous, distributed electronic repositories. The key idea is to exploit underlying structure at various levels of granularity to build high-level indices with task-specific interpretations. Information agents construct such indices and are configured as a network of reusable modules called structure detectors and segmenters. We illustrate our architectu ...

Keywords: information gathering, software agents, table recognition

6 Compiler transformations for high-performance computing

David F. Bacon, Susan L. Graham, Oliver J. Sharp

December 1994 ACM Computing Surveys (CSUR), Volume 26 Issue 4

Publisher: ACM Press

Full text available: pdf(6.32 MB)

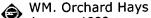
Additional Information: full citation, abstract, references, citings, index terms, review

In the last three decades a large number of compiler transformations for optimizing programs have been implemented. Most optimizations for uniprocessors reduce the number of instructions executed by the program using transformations based on the analysis of scalar quantities and data-flow techniques. In contrast, optimizations for highperformance superscalar, vector, and parallel processors maximize parallelism and

memory locality with transformations that rely on tracking the properties o ...

Keywords: compilation, dependence analysis, locality, multiprocessors, optimization, parallelism, superscalar processors, vectorization

7 Structure of mathematical programming systems



January 1968 Proceedings of the 1968 23rd ACM national conference

Publisher: ACM Press

Full text available: pdf(1.47 MB) Additional Information: full citation, abstract, index terms

A mathematical programming system (MPS), as now implemented on third generation computers, constitutes four separate subject areas: 1. Algorithmic and procedural capabilities 2. Problem formulation and solution techniques 3. Programming languages 4. System structure and use Each of these areas involves extensive considerations and we can not do justice to any of them in the time available. Since problem formulation and solution techniqu ...

A retrospective on the Dorado, a high-performance personal computer

Kenneth A. Pier

June 1983 ACM SIGARCH Computer Architecture News, Proceedings of the 10th annual international symposium on Computer architecture ISCA '83, Volume 11 Issue 3

Publisher: IEEE Computer Society Press, ACM Press

Full text available: pdf(2.01 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

In late 1975, members of the Xerox Palo Alto Research Center embarked on the specification of a high-performance successor to the Alto personal minicomputer, in use since 1973. After four years, the resulting machine, called the Dorado, was in use within the research community at PARC. This paper begins with an overview of the design goals, architecture, and implementation of the Dorado and then provides a retrospective view and critique of the Dorado project as a whole. The major machine a ...

9 Experience with access functions in an experimental compiler

Frederic N. Ris

September 1984 ACM SIGMICRO Newsletter, Volume 15 Issue 3

Publisher: ACM Press

Full text available: 🔁 pdf(1.12 MB) Additional Information: full citation, abstract, references

This paper describes an access function subsystem embedded in portions of an experimental microcode compiler which was built and used during 1973--6 using the IBM PL/I optimizing compiler under VM/370 and CMS. The use of the access function subsystem in this context was itself an experiment, performed by a group for all of whom PL/I was a new language and VM/370 a new operating system. The implementation of the subsystem was done strictly within the confines of the PL/I language. The basic objec ...

10 Technical reports

SIGACT News Staff

January 1980 ACM SIGACT News, Volume 12 Issue 1

Publisher: ACM Press

Full text available: pdf(5.28 MB) Additional Information: full citation

11

Workflow in different styles of virtual enterprise

Roger Tagg

January 2001 Australian Computer Science Communications, Proceedings of the workshop on Information technology for virtual enterprises ITVE '01, Proceedings of the workshop on Information technology for virtual enterprises ITVE '01, Volume 23 Issue 6

Publisher: IEEE Computer Society, IEEE Computer Society Press

Full text available: pdf(715.49 KB)

Additional Information: full citation, abstract, references, citings

Publisher Site

Because of the many forms a Virtual Enterprise (VE) can take, there is no single model of what type of approach to workflow management is most appropriate. This paper is based on an analysis of the different types of business practice that lead to the formation of VEs. A number of different workflow scenarios are depicted, and four specific issues are then discussed. The first is the recognition of the different life cycle stages of a Virtual Enterprise. The second is the problem of workflow cas ...

12 Visualizing digital library search results with categorical and hierarchical axes

Ben Shneiderman, David Feldman, Anne Rose, Xavier Ferré Grau

June 2000 Proceedings of the fifth ACM conference on Digital libraries DL '00

Publisher: ACM Press

Full text available: pdf(682.87 KB)

Additional Information: full citation, abstract, references, citings, index terms

Digital library search results are usually shown as a textual list, with 10-20 items per page. Viewing several thousand search results at once on a two-dimensional display with continuous variables is a promising alternative. Since these displays can overwhelm some users, we created a simplified two-dimensional display that uses categorical and hierarchical axes, called hieraxes. Users appreciate the meaningful and limited number of terms on each hieraxis. At each grid point ...

Keywords: categorical axes, digital libraries, graphical user interfaces, hierarchy, hieraxes, information visualization

13 Building flexible AGV and ASRS system models for facility design phase applications

Ronald L. Webster, David F. Foster

December 1990 Proceedings of the 22nd conference on Winter simulation WSC' 90

Publisher: IEEE Press

Full text available: pdf(836.01 KB) Additional Information: full citation, references, index terms

14 Spatial interpretation of domain objects integrated into a freeform electronic



Thomas P. Moran, William van Melle, Patrick Chiu

November 1998 Proceedings of the 11th annual ACM symposium on User interface software and technology UIST '98

Publisher: ACM Press

Full text available: 📆 pdf(130.78 KB) Additional Information: full citation, references, citings, index terms

Keywords: customization, freeform interaction, gestural interfaces user interface design, implicit stucture, informal systems, list structures, metting support tools, pen-based systems, recognition-based systems, tailorability, witeboard metaphor



15 ALGOL: ALGOL bulletin no. 28

F. G. Duncan

November 1968 ACM SIGPLAN Notices, Volume 3 Issue 11

Publisher: ACM Press

Full text available: pdf(3.41 MB) Additional Infor

Additional Information: full citation

16 A tour through cedar

Warren Teitelman

March 1984 Proceedings of the 7th international conference on Software engineering ICSE '84

Publisher: IEEE Press

Full text available: 🔁 pdf(2.08 MB) Additional Information: full citation, references, citings, index terms

17 Nearly optimal algorithms and bounds for multilayer channel routing

Bonnie Berger, Martin Brady, Donna Brown, Tom Leighton March 1995 Journal of the ACM (JACM), Volume 42 Issue 2

Publisher: ACM Press

Full text available: pdf(2.81 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

This paper presents algorithms for routing channels with $L\geqslant 2$ layers. For the unit vertical overlap model, we describe a two-layer channel routing algorithm that uses at most d+Od tracks to route two-terminal net problems and 2d+od tracks to route mult ...

Keywords: VLSI layout, channel routing, multilayer routing

18 How electronic outlining can help you create online materials

Jonathan Price

October 1997 Proceedings of the 15th annual international conference on Computer documentation SIGDOC '97

Publisher: ACM Press

Full text available: pdf(1.37 MB) Additional Information: full citation, references, index terms

19 Automatic data layout for distributed-memory machines

Ken Kennedy, Ulrich Kremer

July 1998 ACM Transactions on Programming Languages and Systems (TOPLAS),

Volume 20 Issue 4
Publisher: ACM Press

Full text available: pdf(633.20 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

The goal of languages like Fortran D or High Performance Fortran (HPF) is to provide a simple yet efficient machine-independent parallel programming model. After the algorithm selection, the data layout choice is the key intellectual challenge in writing an efficient program in such languages. The performance of a data layout depends on the target compilation system, the target machine, the problem size, and the number of available processors. This makes the choice of a good layout extremel ...

Keywords: high performance Fortran

20 A spreadsheet interface for visualization exploration

T. J. Jankun-Kelly, Kwan-Liu Ma

October 2000 Proceedings of the conference on Visualization '00 VIS '00

Publisher: IEEE Computer Society Press

Full text available: pdf(547.98 KB) Additional Information: full citation, citings, index terms

Keywords: knowledge representation, scientific visualization, spreadsheets, user interfaces, visualization systems, volume rendering

Results 1 - 20 of 200

Result page: 1 2 3 4 5 6 7 8 9 10 next

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2007 ACM, Inc.

<u>Terms of Usage Privacy Policy Code of Ethics Contact Us</u>

Useful downloads: Adobe Acrobat Q QuickTime Windows Media Player Real Player



Subscribe (Full Service) Register (Limited Service, Free) Login

Search: © The ACM Digital Library C The Guide

+rows +columns +expanding +contracting spreadsheets table:

SPARCH

the acm digital Library

Feedback Report a problem Satisfaction survey

Published before January 2002 Terms used

Found 336 of

rows columns expanding contracting spreadsheets tables formatting layout expanding

127,093

Sort results

Best 200 shown

by

Display results

relevance expanded form Save results to a Binder Search Tips

Try an Advanced Search Try this search in The ACM Guide

Copen results in a new window

Results 21 - 40 of 200

Result page: <u>previous</u> <u>1</u> **2** <u>3</u> <u>4</u> <u>5</u> <u>6</u> <u>7</u> <u>8</u> <u>9</u> <u>10</u>

next

Relevance scale

21 Semantic database modeling: survey, applications, and research issues

Richard Hull, Roger King

September 1987 ACM Computing Surveys (CSUR), Volume 19 Issue 3

Publisher: ACM Press

Full text available: pdf(5.42 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Most common database management systems represent information in a simple recordbased format. Semantic modeling provides richer data structuring capabilities for database applications. In particular, research in this area has articulated a number of constructs that provide mechanisms for representing structurally complex interrelations among data typically arising in commercial applications. In general terms, semantic modeling complements work on knowledge representation (in artificial int ...

22 Blocking and array contraction across arbitrarily nested loops using affine partitioning



Amy W. Lim, Shih-Wei Liao, Monica S. Lam

June 2001 ACM SIGPLAN Notices, Proceedings of the eighth ACM SIGPLAN symposium on Principles and practices of parallel programming PPoPP

'01, Volume 36 Issue 7

Publisher: ACM Press

Full text available: pdf(290.60 KB)

Additional Information: full citation, abstract, references, citings, index

Applicable to arbitrary sequences and nests of loops, affine partitioning is a program transformation framework that unifies many previously proposed loop transformations, including unimodular transforms, fusion, fission, reindexing, scaling and statement reordering. Algorithms based on affine partitioning have been shown to be effective for parallelization and communication minimization. This paper presents algorithms that improve data locality using affine partitioning. Blockin ...

23 Declarative programming in a prototype-instance system: object-oriented



programming without writing methods

Brad A. Myers, Dario A. Giuse, Brad Vander Zanden

October 1992 ACM SIGPLAN Notices, conference proceedings on Object-oriented programming systems, languages, and applications OOPSLA '92, Volume

27 Issue 10

Publisher: ACM Press

Full text available: pdf(2.19 MB) Additional Information: full citation, references, citings, index terms

24 Automatic parsing for content analysis



Frederick J. Damerau

June 1970 Communications of the ACM, Volume 13 Issue 6

Publisher: ACM Press

Full text available: pdf(4.07 MB)

Additional Information: full citation, abstract, references, citings

Although automatic syntactic and semantic analysis is not yet possible for all of an unrestricted natural language text, some applications, of which content analysis is one, do not have such a stringent coverage requirement. Preliminary studies show that the Harvard Syntactic Analyzer can produce correct and unambiguous identification of the subject and object of certain verbs for approximately half of the relevant occurences. This provides a degree of coverage for content analysis variable ...

Keywords: content analysis, information retrieval, language analysis, natural language processing, parsing, syntactic analysis, text processing

25 Introductory tutorials: Spreadsheet simulation

Andrew F. Seila

December 2001 Proceedings of the 33nd conference on Winter simulation WSC '01

Publisher: IEEE Computer Society

Full text available: pdf(91.36 KB) Additional Information: full citation, abstract, references, index terms

"Spreadsheet simulation" refers to the use of a spreadsheet as a platform for representing simulation models and performing the simulation experiment. This tutorial explains the reasons for using this platform for simulation, discusses why this is frequently an efficient way to build simulation models and execute them, discusses how to setup a spreadsheet simulation, and finally examines when a spreadsheet is not an appropriate platform for simulation.

26 Twelve-row punched-card code for information interchange



June 1966 Communications of the ACM, Volume 9 Issue 6

Publisher: ACM Press

Full text available: pdf(1.21 MB)

Additional Information: full citation, references

27 Proceedings of the SIGNUM conference on the programming environment for



development of numerical software

March 1979 ACM SIGNUM Newsletter, Volume 14 Issue 1

Publisher: ACM Press

Full text available: pdf(5.02 MB)

Additional Information: <u>full citation</u>

28 Navigating hierarchically clustered networks through fisheye and full-zoom methods



Doug Schaffer, Zhengping Zuo, Saul Greenberg, Lyn Bartram, John Dill, Shelli Dubs, Mark Roseman

June 1996 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 3 Issue 2

Publisher: ACM Press

Additional Information:

Full text available: pdf(305.99 KB)

full citation, abstract, references, citings, index terms, review

Many information structures are represented as two-dimensional networks (connected graphs) of links and nodes. Because these network tend to be large and quite complex, people often perfer to view part or all of the network at varying levels of detail. Hierarchical clustering provides a framework for viewing the network at different levels of detail by superimposing a hierarchy on it. Nodes are grouped into clusters, and clusters are themselves place into other clusters. Us ...

Keywords: data acquisition, fisheye views, hierarchically clustered graphs, information visualization, supervisory control

29 Ad Hoc Query: a reusable database access capability

J. Wolfe

July 1994 Proceedings of the eleventh annual Washington Ada symposium & summer ACM SIGAda meeting on Ada WADAS '94

Publisher: ACM Press

Full text available: pdf(1.06 MB)

Additional Information: full citation, references, index terms

30 OLAP and statistical databases: similarities and differences

Arie Shoshani

May 1997 Proceedings of the sixteenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems PODS '97

Publisher: ACM Press

Full text available: pdf(1.66 MB)

Additional Information: full citation, references, citings, index terms

31 To table or not to table: a hypertabular answer

Giuseppe Santucci, Laura Tarantino

December 1996 ACM SIGMOD Record, Volume 25 Issue 4

Publisher: ACM Press

Full text available: pdf(518.86 KB) Additional Information: full citation, abstract, index terms

Suitable data set organizers are necessary to help users assimilating information retrieved from a database. In this paper we present (1) a general hypertextual framework for the interaction with tables, and (2) a specialization of the framework in order to present in hypertextual format the results of queries expressed in terms of a visual semantic query language.

32 Data access for the masses through OLE DB

José A. Blakeley

June 1996 ACM SIGMOD Record, Proceedings of the 1996 ACM SIGMOD international conference on Management of data SIGMOD '96, Volume 25 Issue 2

Publisher: ACM Press

Full text available: pdf(1.24 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper presents an overview of OLE DB, a set of interfaces being developed at Microsoft whose goal is to enable applications to have uniform access to data stored in DBMS and non-DBMS information containers. Applications will be able to take advantage of the benefits of database technology without having to transfer data from its place of origin to a DBMS. Our approach consists of defining an open, extensible Collection of interfaces that factor and encapsulate orthogonal, reusable portions ...

33 Analysis of techniques to improve protocol processing latency

David Mosberger, Larry L. Peterson, Patrick G. Bridges, Sean O'Malley

August 1996 ACM SIGCOMM Computer Communication Review, Conference proceedings on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '96, Volume 26 Issue 4

Publisher: ACM Press

Full text available: pdf(134.36 KB)

Additional Information: full citation, abstract, references, citings, index terms

This paper describes several techniques designed to improve protocol latency, and reports on their effectiveness when measured on a modern RISC machine employing the DEC Alpha processor. We found that the memory system---which has long been known to dominate network throughput---is also a key factor in protocol latency. As a result, improving instruction cache effectiveness can greatly reduce protocol processing overheads. An important metric in this context is the memory cycles per instructi ...

34 APSS: An automatic PLA synthesis system

M. W. Stebnisky, M. J. McGinnis, J. C. Werbickas, R. N. Putatunda, A. Feller June 1983 Proceedings of the 20th conference on Design automation DAC '83

Publisher: IEEE Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(611.47 KB) terms

An integrated, fully automatic software capability that combines Boolean logic translation, Boolean minimization, PLA folding, PLA topology generation, and automatic PLA subchip interfacing to the MP2D standard cell automatic placement and routing program in a single, modular software package is described. Written in ANSI standard FORTRAN, APSS permits the designer to input either arbitrarily formed Boolean equations or a truth table, and to receive a complete MP2D-compatible PLA subchip la ...

35 Heuristics, Experimental Subjects, and Treatment Evaluation in Bigraph Crossing

Minimization

Matthias Stallmann, Franc Brglez, Debabrata Ghosh

December 2001 Journal of Experimental Algorithmics (JEA), Volume 6

Publisher: ACM Press

Full text available: pdf(858.74 KB) 哥 ps(3.01 MB)

Additional Information: full citation, abstract, references, index terms

The bigraph crossing problem, embedding the two node sets of a bipartite graph along two parallel lines so that edge crossings are minimized, has applications to circuit layout and graph drawing. Experimental results for several previously known and two new heuristics suggest continued exploration of the problem, particularly sparse instances. We emphasize careful design of experimental subject classes and present novel views of the results. All source code, data, and scripts are available on-li ...

Keywords: crossing number, design of experiments, graph drawing, graph embedding, graph equivalence classes, layout

36 Compiling parallel code for sparse matrix applications

Vladimir Kotlyar, Keshav Pingali, Paul Stodghill

November 1997 Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '97

Publisher: ACM Press

Full text available: 📆 pdf(161.83 KB) Additional Information: full citation, abstract, references, citings

We have developed a framework based on relational algebra for compiling efficient sparse matrix code from dense DO-ANY loops and a specification of the representation of the sparse matrix. In this paper, we show how this framework can be used to generate parallel code, and present experimental data that demonstrates that the code generated by our *Bernoulli* compiler achieves performance competitive with that of hand-written codes for important computational kernels.

Keywords: parallelizing compilers, sparse matrix computations

37 Techniques for the translation of MATLAB programs into Fortran 90

Luiz De Rose, David Padua

March 1999 ACM Transactions on Programming Languages and Systems (TOPLAS),

Volume 21 Issue 2
Publisher: ACM Press

Full text available: 🔁 pdf(467.60 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

This article describes the main techiques developed for FALCON's MATLAB-to-Fortran 90 compiler. FALCON is a programming environment for the development of high-performance scientific programs. It combines static and dynamic inference methods to translate MATLAB programs into Fortran 90. The static inference is supported with advanced value propagation techniques and symbolic algorithms for subscript analysis. Experiments show that FALCON's MATLAB translator can generate code that performs m ...

Keywords: MATLAB, array language compilation, inference

38 The white dwarf: a high-performance application-specific processor

A. Wolfe, M. Breternitz, C. Stephens, A. L. Ting, D. B. Kirk, R. P. Bianchini, J. P. Shen May 1988 ACM SIGARCH Computer Architecture News, Proceedings of the 15th Annual International Symposium on Computer architecture ISCA '88, Volume 16 Issue 2

Publisher: IEEE Computer Society Press, ACM Press

Full text available: pdf(1.40 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper presents the design and implementation of a high-performance special-purpose processor, called The White Dwarf, for accelerating finite element analysis algorithms. The White Dwarf CPU contains two Am29325 32-bit floating-point processors and one Am29332 32-bit ALU, and employs a wide-instruction word architecture in which the application algorithm is directly implemented in microcode. The entire system is VME-bus compatible and interfaces with a SUN 31160 host. The syste ...

39 Conference abstracts

January 1977 Proceedings of the 5th annual ACM computer science conference CSC '77

Publisher: ACM Press

Full text available: 🔁 pdf(3.14 MB) Additional Information: full citation, abstract, index terms

One problem in computer program testing arises when errors are found and corrected after a portion of the tests have run properly. How can it be shown that a fix to one area of the code does not adversely affect the execution of another area? What is needed is a quantitative method for assuring that new program modifications do not introduce new errors into the code. This model considers the retest philosophy that every program instruction that could possibly be reached and tested from the ...

40 Hypertext engineering: practical methods for creating a compact disk encyclopedia R. J. Glushko, Mark D. Weaver, Thomas A. Coonan, Janet E. Lincoln



January 2000 Proceedings of the ACM conference on Document processing systems **DOCPROCS '88**

Publisher: ACM Press

Full text available: pdf(666.34 KB) Additional Information: full citation, references, citings, index terms

Results 21 - 40 of 200

Result page: previous $\underline{1}$ $\underline{2}$ $\underline{3}$ $\underline{4}$ $\underline{5}$ $\underline{6}$ $\underline{7}$ $\underline{8}$ $\underline{9}$ $\underline{10}$ next

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2007 ACM, Inc. Terms of Usage Privacy Policy Code of Ethics Contact Us

Useful downloads: Adobe Acrobat QuickTime Windows Media Player Real Player

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	6538	(table\$1 or spreadsheet\$1 or (spread adj sheet\$1) or catalog\$3 or list\$1) and ((row\$1 or column\$1) with (expand\$3 or compress\$3 or contract\$3 or merg\$3 or abbreviat\$3 or summar\$5 or consolodat\$3))	US-PGPUB	OR	OFF	2007/02/08 11:43
L2	1405	1 and @ad<="20020131"	US-PGPUB	OR	OFF	2007/02/08 11:44
L3	38	2 and (group\$3 near (attribute\$1 or value\$1))	US-PGPUB	OR	OFF	2007/02/08 11:44
L4	1	2 and ((group\$3 and expand\$3) near (attribute\$1 or value\$1))	US-PGPUB	OR	OFF	2007/02/08 11:44
L5	16860	(table\$1 or spreadsheet\$1 or (spread adj sheet\$1) or catalog\$3 or list\$1) and ((row\$1 or column\$1) with (expand\$3 or compress\$3 or contract\$3 or merg\$3 or abbreviat\$3 or summar\$5 or consolodat\$3 or group\$3))	US-PGPUB	OR	OFF	2007/02/08 11:52
L6	3362	5 and @ad<="20020131"	US-PGPUB	OR	OFF	2007/02/08 11:53
L7	137	6 and (group\$3 near (attribute\$1 or value\$1))	US-PGPUB	OR	OFF	2007/02/08 11:44
L8	1	7 and ((group\$3 and expand\$3) near (attribute\$1 or value\$1))	US-PGPUB	OR	OFF	2007/02/08 11:53
L9	14259	((715/503,505,509,513) or (707/2,7, 101) or (705/27,35)).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 11:51
L10	1275	9 and ((table\$1 or spreadsheet\$1 or (spread adj sheet\$1) or catalog\$3 or list\$1) and ((row\$1 or column\$1) with (expand\$3 or compress\$3 or contract\$3 or merg\$3 or abbreviat\$3 or summar\$5 or consolodat\$3 or group\$3)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR .	OFF	2007/02/08 11:52
L11	825	10 and @ad<="20020131"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 11:53

L12	0	11 and ((group\$3 and expand\$3) near (attribute\$1 or value\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR .	OFF	2007/02/08 11:53
S1	2728	(707/3).CCLS.	IBM_TDB USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 15:00
S2	0	(705/206).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR.	OFF	2004/09/27 10:37
S3	998	(705/26).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR .	OFF	2004/09/27 10:37
S4	95	("6023683" "6055516" "6292830" "6334145" "5745891" "6397219" "6466940" "5297030" "5715444" "5895463" "5983219" "6032145" "6275821" "6321224" "6324534" "6327588" "6332135" "6336105" "6338050" "6484165" "6505172" "6584462" "5408333" "6065012" "5857185" "6055515" "5469206"	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/12 10:51
		"5948058" "5694616" "6450407" "5960411" "6240397" "5754938" "5754939" "5835087" "6029195" "6460036" "5359729" "6327593" "6523040" "6101485" "5832502" "6014639" "6373012" "5515488" "4303989" "5812989" "5963207" "6154213" "6728696").pn.				
S5	2	("6321224").PN.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF -	2004/10/05 12:57
S6	2	("6032145").PN.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/05 12:57

		T	T	T		
S7	1267	(707/5).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/05 12:58
S8	367	((707/5).CCLS.) and interactiv\$3	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/05 12:58
S9	246	(((707/5).CCLS.) and interactiv\$3) and compar\$3	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	OFF	2004/10/05 12:59
S10	0	((707/5).CCLS.) and (interactiv\$3 near compar\$3)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/05 12:59
S11	0	((707/5).CCLS.) and (interactiv\$3 adj compar\$3)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/05 13:00
S12	24	((707/5).CCLS.) and (interactiv\$3 same compar\$3)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/05 14:00
S13	10222	(spread adj sheet\$1) or spreadsheet\$1	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/05 14:00
S14	193	(715/503).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/05 14:00
S15	50	(715/504).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/05 14:00
S16	0	("l14orl15").PN.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/05 14:01
S17	214	((715/503).CCLS.) or ((715/504). CCLS.)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/05 14:01

S18	188	(((715/503).CCLS.) or ((715/504). CCLS.)) and function\$1	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	OFF	2004/10/05 14:01
S19	143	(((715/503).CCLS.) or ((715/504). CCLS.)) and (consolodat\$3 or group\$3)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/05 14:02
S20	94	("6023683" "6055516" "6292830" "6334145" "5745891" "6397219" "6466940" "5297030" "5715444" "5895463" "5983219" "6032145" "6275821" "6321224" "6324534" "6327588" "6332135" "6336105" "6338050" "6484165" "6505172" "6584462" "5408333" "6065012" "5857185" "6055515" "5469206" "5948058" "5694616" "6450407" "5960411" "6240397" "5754938" "5754939" "5835087" "6029195" "6460036" "5359729" "6327593" "6523040" "6101485" "5832502" "6014639" "6373012" "5515488" "4303989" "5812989" "5963207" "6154213" "6728696").pn.	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/12 10:51
S21	3	(("6023683" "6055516" "6292830" "6334145" "5745891" "6397219" "6466940" "5297030" "5715444" "5895463" "5983219" "6032145" "6275821" "6321224" "6324534" "6327588" "6332135" "6336105" "6338050" "6484165" "6505172" "6584462" "5408333" "6065012" "5948058" "5694616" "6450407" "5960411" "6240397" "5754938" "5754939" "5835087" "6029195" "6460036" "5359729" "6327593" "6523040" "6101485" "5832502" "6014639" "6373012" "5515488" "4303989" "5812989" "5963207" "6154213" "6728696").pn.) and (table\$1 adj data\$1)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/12 10:55
S22	109	(715/509).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/12 10:56
S23	64	((715/509).CCLS.) and group\$3	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/12 10:57

S24	58	(((715/509).CCLS.) and group\$3) and table\$1	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/12 11:06
S25.	1006	(705/26).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/12 11:07
S26	76	((705/26).CCLS.) and grouping	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/12 11:15
S27	0	((705/26).CCLS.) and ((consolodat\$3 or expand\$3) near column\$1)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/12 11:15
S28	. 1	((705/26).CCLS.) and ((consolodat\$3 or expand\$3) near5 column\$1)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/12 11:16
S29	485	((705/26).CCLS.) and (table\$1)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/12 11:16
S30	0	((705/26).CCLS.) and (table\$1 adj manipulat\$4)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/12 11:16
S31	3	((705/26).CCLS.) and (table\$1 adj sort\$3)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/12 11:17
S32	330	manipulat\$3 adj table\$1	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	OFF	2004/10/12 11:17
S33	16	US-6169992-\$.DID. OR US-6032145-\$.DID. OR US-5897639-\$.DID. OR US-6014639-\$.DID. OR US-5740425-\$.DID. OR US-5832459-\$.DID. OR US-6236985-\$.DID. OR US-6131088-\$.DID.	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/26 10:05

	•					
S34	7	(US-6169992-\$.DID. OR US-6032145-\$.DID. OR US-5897639-\$.DID. OR US-6014639-\$.DID. OR US-5740425-\$.DID. OR US-5832459-\$.DID. OR US-6236985-\$.DID. OR US-6131088-\$.DID.) and table\$1	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/26 10:05
S35		((US-6169992-\$.DID. OR US-6032145-\$.DID. OR US-5897639-\$.DID. OR US-6014639-\$.DID. OR US-5740425-\$.DID. OR US-5832459-\$.DID. OR US-6236985-\$.DID. OR US-6131088-\$.DID.) and table\$1) and (combin\$3 or merg\$3)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	OFF	2004/10/26 10:06
S36	1	"5897622".PN.	USPAT	OR	OFF	2004/10/26 10:07
S37	1	"5799157".PN.	USPAT	OR	OFF	2004/10/26 10:07
S38	1	"5715444".PN.	USPAT	OR	OFF	2004/10/26 10:07
S39	1	"5630125".PN.	USPAT	OR	OFF	2004/10/26 10:07
S 4 0	1	"5319542".PN.	USPAT	OR	OFF	2004/10/26 10:08
S41	1	"5231566".PN.	USPAT	OR	OFF	2004/10/26 10:08
S42	1	"5206949".PN.	USPAT	OR	OFF	2004/10/26 10:09
S43	. 1	"4992940".PN.	USPAT	OR	OFF	2004/10/26 10:08
S44	1457	(707/4).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/26 10:09
S45	1115	((707/4).CCLS.) and table\$1	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/26 10:32
S46	1	"4879648".PN.	USPAT	OR	OFF	2004/10/26 10:11
S47	1	"4947028".PN.	USPAT	OR	OFF	2004/10/26 10:11
S48	1	"4984155".PN.	USPAT	OR	OFF	2004/10/26 10:11
S49	1	"4992940".PN.	USPAT	OR	OFF '	2004/10/26 10:11
\$50	10305	((spread adj sheet\$1) or spreadsheet\$1)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/26 10:33
S51	48	(((spread adj sheet\$1) or spreadsheet\$1)) and (sort\$3 adj (row\$1 or column\$1))	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/26 10:34

S52	3	((((spread adj sheet\$1) or spreadsheet\$1)) and (sort\$3 adj (row\$1 or column\$1))) and (remov\$3 adj (row\$1 or column\$1))	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/26 10:49
S53	69586	catalog\$1 ,	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/26 10:50
S54	13	catalog\$1 near manipulat\$5	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/26 11:12
S55	4380	(group\$3 or merg\$3) near row\$1	USPAT; EPO; JPO; DERWENT; IBM_TDB	ÖR	OFF .	2004/10/26 11:13
S56	2665	(group\$3 or merg\$3) adj row\$1	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/26 11:13
S57	2756	(group\$3 or merg\$3 or expand\$3) adj row\$1	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/26 11:13
S58	431	(group\$3 or merg\$3 or expand\$3) adj (row\$1 and column\$1)	USPAT; EPO; JPO; DERWENT; IBM_TDB	ÖR	OFF	2004/10/26 11:14
S59	592	table\$1 near manipulat\$3	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/04 09:36
S60	9153	table\$1 near display\$3	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/04 09:37
S61	1232	(table\$1 near display\$3) and (row\$1 and column\$1)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR ·	OFF	2004/11/04 09:44
S62	36	((table\$1 near display\$3) and (row\$1 and column\$1)) and ((merg\$3 or combin\$3) near (column\$1 or row\$1 or cell\$1))	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/04 09:59
S63	112	((table\$1 near display\$3) and (row\$1 and column\$1)) and catalog\$3	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/04 10:33

						
S64	109	(715/509).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/04 10:33
S65	52	((715/509).CCLS.) and (merg\$3 or consolidat\$3 or combin\$3)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/04 10:34
S66	94	("6023683" "6055516" "6292830" "6334145" "5745891" "6397219" "6466940" "5297030" "5715444" "5895463" "5983219" "6032145" "6275821" "6321224" "6324534" "6327588" "6332135" "6336105" "6338050" "6484165" "6505172" "6584462" "5408333" "6065012" "5948058" "5694616" "6450407" "5960411" "6240397" "5754938" "5754939" "5835087" "6029195" "6460036" "5359729" "6327593" "6523040" "6101485" "5832502" "6014639" "6373012" "5515488" "4303989" "5812989" "5963207" "6154213" "6728696").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 11:22
S67	93	S66 and @ad<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 11:23
S68	. 42	S67 and (table\$1 or column\$1 or row\$1 or spreadsheet\$1 or (spread adj sheet\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 11:24
S69	34	S68 and (database\$1 or (data adj base\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 11:33
S70	32	S69 and (combin\$3 or group\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 11:41
S71		S69 and ((combin\$3 or group\$3) near (row\$1 or column\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 11:35

S72	6	S69 and ((combin\$3 or group\$3) near3 (row\$1 or column\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 11:36
S73		S69 and ((combin\$3 or group\$3) near5 (row\$1 or column\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	OFF	2005/03/30 11:42
S74	15	S70 and sort\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 11:41
S75	2	S73 and sort\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 12:14
S76	3	"6523040"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 12:15
S77	2	("6523040").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 14:35
S78	8	("5077668" "5638543" "5867164" "5991754" "6023696" "6205451" "6298342").PN. OR ("6523040").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/30 12:15
S79	3	S78 and sort\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/30 12:16
S80	2	("6523040").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 14:35
S81	0	S80 and (group\$3 near categor\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 14:35

S82		S80 and (group\$3 near5 categor\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 14:35
S83	0	S80 and (group\$3 with categor\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 14:35
S84	0	S80 and (group\$3 same categor\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 14:35
S85	1	S80 and (group\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 14:38
S86	1	S80 and (categor\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 14:39
S87	0	S80 and (consolidat\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 14:39
S88	0	S80 and (consol\$8)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 14:40
S89	0	S80 and (consolidat\$8)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 15:08
S90	1151	expand\$3 near (column\$1 or row\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 15:08
S91	71	(expand\$3 near (column\$1 or row\$1)) same (table\$1 or spreadsheet\$1 or (spread adj sheet\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 15:15

S92	55	S91 and @ad<="20020131"	US-PGPUB; USPAT;	OR .	OFF	2005/03/30 15:15
			EPO; JPO; DERWENT; IBM_TDB			
S93	126	(expand\$3 near (column\$1 or row\$1)) same (matrix or table\$1 or spreadsheet\$1 or (spread adj sheet\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 15:15
S94	91	S93 and @ad<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 15:15
S95	71	S93 and @ad<="20020131"	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 15:15
S96	18145	(table\$1 or spreadsheet\$1 or (spread adj sheet\$1)) same sort\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/06 16:17
S97	2261	(table\$1 or spreadsheet\$1 or (spread adj sheet\$1)) near sort\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/06 16:18
S98	936	(table\$1 or spreadsheet\$1 or (spread adj sheet\$1)) near manipulat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/06 16:20
S99	10	(table\$1 near (column\$1 or row\$1)) near manipulat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/06 16:19
S10 0	0	(table\$1 with (column\$1 or row\$1)) near manipulat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/06 16:19
S10 1	3	(table\$1 same (column\$1 or row\$1)) near manipulat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/06 16:19

S10 2	196	S98 and sort\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/06 16:21
S10 3	23	S98 and (sort\$3 near (row\$1 or column\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/08 08:49
S10 4	68073	summariz\$3 near (tabl\$3 or spreadsheet\$1 or (spread adj sheet\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/08 08:50
S10 5	20	summariz\$3 near (spreadsheet\$1 or (spread adj sheet\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/08 08:50
S10 6	21	(summariz\$3 or consolidat\$3 or expand\$3) near (table\$1 near (row\$1 or column\$1 or cell\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/08 08:55
S10 7	216	(summariz\$3 or consolidat\$3 or expand\$3) near5 (table\$1 near (row\$1 or column\$1 or cell\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/08 09:07
S10 8	8	("5077668" "5638543" "5867164" "5991754" "6023696" "6205451" "6298342").PN. OR ("6523040").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/08 09:03
S10 9	1510	(summariz\$3 or consolidat\$3 or expand\$3) near (table\$1 near5 (row\$1 or column\$1 or cell\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	OFF	2005/04/08 09:17
S11 0	1415	(summariz\$3) near (table\$1 near5 (row\$1 or column\$1 or cell\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/08 09:07
S11 1	. 20	(consolidat\$3) near (table\$1 near5 (row\$1 or column\$1 or cell\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/08 09:09

· ·						
S11 2	242	(consolidat\$3) near ((row\$1 or column\$1 or cell\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/08 09:09
S11 3	10569	(summariz\$3 or consolidat\$3 or expand\$3) near ((row\$1 or column\$1 or cell\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/08 09:09
S11 4	6576	S113 and table\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/08 09:09
S11 5	1599	(summariz\$3 or consolidat\$3 or expand\$3) near ((row\$1 or column\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF.	2005/04/08 09:10
S11 6	138	(consolidat\$3) near ((row\$1 or column\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/08 09:10
S11 7	1577	(summariz\$3 or consolidat\$3 or expand\$3 or merg\$3) near (table\$1 near5 (row\$1 or column\$1 or cell\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/08 09:17
S11 8	33	(summariz\$3 or consolidat\$3 or expand\$3 or merg\$3) near (table\$1 near (row\$1 or column\$1 or cell\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/08 09:17
S11 9		requisite.asnm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/04 08:30
S12 0	21	("4879648" "4947028" "4984155" "4992940" "5206949" "5231566" "5319542" "5630125" "5715444" "5799157" "5924090" "5995979" "6032145" "6169992" "6230154").PN. OR ("6321224").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/04 08:32

S12 1	22	("4879648" "4947028" "4984155" "4992940" "5206949" "5231566" "5319542" "5630125" "5715444" "5799157" "5897622").PN. OR ("6032145"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF .	2005/05/04 08:37
S12 2		("5715444" "5740425" "5802524" "5890175" "5897639" "5963953" "5983219" "6023683" "6032145" "6055516" "6072481" "6110213" "6128600" "6154738" "6163774" "6324534").PN. OR ("6871198"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/04 08:40
S12 3	13090	(subset\$1 or subsetting or (sub adj set\$1) or par\$3) near (table\$1 or spreadsheet\$1 or (spread adj sheet\$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/04 08:43
S12 4	· 533	(subset\$1 or subsetting or (sub adj set\$1)) near (table\$1 or spreadsheet\$1 or (spread adj sheet\$1))	US-PGPUB; USPAT; USOCR	OR .	OFF	2005/05/04 08:44
S12 5	306	S124 and database\$1	US-PGPUB; USPAT; USOCR	OR .	OFF	2005/05/04 08:45
S12 6	92	S125 and interactiv\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/04 08:45
S12 7	3	S126 and (expand\$3 near (row\$1 or column\$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/04 08:48
S12 8	1890	expand\$3 near (table\$1 or column\$1 or row\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/04 08:48
S12 9	269	S128 and database\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/04 08:49
S13 0	119	S129 and (subset\$1 or subsetting or subcategor\$3 or (sub adj categor\$3) or (sub adj set\$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/04 09:04
S13	3301	database\$1 near display\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/04 09:04
S13 2	79	database\$1 near display\$3 near result\$3	US-PGPUB; USPAT; USOCR	OR	OFF .	2005/05/04 09:05
S13 3	32	database\$1 near display\$3 near result\$3	USPAT; USOCR	OR	OFF	2005/05/04 09:05

S13 4	. 0	database\$1 near display\$3 near result\$3 near table\$1	USPAT; USOCR	OR	OFF	2005/05/04 09:06
S13 5	0	(database\$1 near display\$3 near result\$3) with (table\$1 or tabular)	USPAT; USOCR	OR	OFF	2005/05/04 09:06
S13 6	1	(database\$1 near display\$3 near result\$3) same (table\$1 or tabular)	USPAT; USOCR	OR	OFF	2005/05/04 09:27
S13 7	2	(database\$1 near display\$3 near5 result\$3) same (table\$1 or tabular)	USPAT; USOCR	OR	OFF	2005/05/04 09:30
S13 8	2	("6,523,040").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/04 11:11
S13 9	7357	rao.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/04 09:53
S14 0	522	S139 and database\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/04 09:54
S14 1	. 8	("5077668" "5638543" "5867164" "5991754" "6023696" "6205451" "6298342").PN. OR ("6523040").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/04 11:03
S14 2	276	((row\$1 or column\$1) near (reduc\$3 or reduct\$3 or collaps\$3)) same (database\$1 or table\$1 or spreadsheet\$1 or (spread adj sheet\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/04 11:12
S14 3	4061	(compar\$3 near (column\$1 or row\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/09 08:30
S14 4	3141	S143 and @ad<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/09 08:30
S14 5	35	(compar\$3 near ((table\$1 or spreadsheet\$1) near (column\$1 or row\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/09 08:32

S14 6	2	(((select\$3 or choos\$3) and compar\$3) near ((table\$1 or spreadsheet\$1) near (column\$1 or row\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF .	2005/05/09 08:34
S14 7	42	(((select\$3 or choos\$3) and compar\$3) near5 ((table\$1 or spreadsheet\$1) near (column\$1 or row\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/09 08:36
S14 8	1	(((select\$3 or choos\$3) and compar\$3) near5 ((table\$1 or spreadsheet\$1) near5 (column\$1 or row\$1))) and (e adj commerc\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/09 08:50
S14 9	16	US-6169992-\$.DID. OR US-6032145-\$.DID. OR US-5897639-\$.DID. OR US-6014639-\$.DID. OR US-5740425-\$.DID. OR US-5832459-\$.DID. OR US-6236985-\$.DID. OR US-6131088-\$.DID.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/09 08:50
S15 0	22	("4879648" "4947028" "4984155" "4992940" "5206949" "5231566" "5319542" "5630125" "5715444" "5799157" "5897622").PN. OR ("6032145"). URPN.	US-PGPUB; USPAT; USOCR	OR -	OFF	2005/05/09 08:51
S15 1	1627	"l22" and @ad<="20010131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/09 08:52
S15 2	1627	"I22" and @ad<="20010131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/09 08:52
S15 3	. 17	S150 and @ad<="20010131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/09 09:31
S15 4	17	S153 and (select\$3 or compar\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/09 08:55

				· · · · · · · · · · · · · · · · · · ·		
S15 5	17	S153 and (select\$3 or compar\$3 or expand\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/09 09:31
S15 6	22	("4879648" "4947028" "4984155" "4992940" "5206949" "5231566" "5319542" "5630125" "5715444" "5799157" "5897622").PN. OR ("6032145"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/09 09:31
S15 7	17	S156 and @ad<="20010131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/09 09:34
S15 8	17.	S157 and (select\$3 or compar\$3 or expand\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/09 09:33
S15 9	201	quattro adj pro	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/09 09:34
S16 0	146	S159 and @ad<="20010131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/09 09:37
S16 1	2	("5317686").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/11 09:19
S16 2	75	("4601003" "4712191" "4899136" "4901221" "5018077" "5033009" "5043916" "5055998" "5065347" "5093907").PN. OR ("5317686").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/11 09:20
S16 3	22	S162 and expand\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/11 10:40
S16 4	2	("6,523,040").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/11 10:40

	•					
S16 5	2	("6,523,040").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/12 09:07
S16 6	7063	(online or on-line or electronic) near (catalog\$3 or list\$4 or table\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 13:34
S16 7	4267	S166 and @ad<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 13:23
S16 8	11101	(online or on-line or electronic or web or html) near (catalog\$3 or list\$4 or table\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 13:22
S16 9	6393	S168 and @ad<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 13:34
S17 0	1799	S169 and (row\$1 or column\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 13:23
S17 1	876	S169 and (row\$1 and column\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 13:23
S17 2	1	S169 and ((expand\$3 or condens\$3 or compress\$3 or reduc\$3) near (row\$1 and column\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 13:30
S17 3	1	S169 and ((expand\$3 or condens\$3 or compress\$3 or reduc\$3 or compact\$3 or narrow\$3 or widen\$3 or delet\$3) near (row\$1 and column\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 13:24
S17 4	9	("5077668" "5638543" "5867164" "5991754" "6023696" "6205451" "6298342").PN. OR ("6523040").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/27 13:25

S17 5	8	S169 and ((expand\$3 or condens\$3 or compress\$3 or reduc\$3) near5 (row\$1 and column\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 13:30
S17 6	9	("5077668" "5638543" "5867164" "5991754" "6023696" "6205451" "6298342").PN. OR ("6523040").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/27 13:33
S17 7	579	(interactive\$2) with (online or on-line or electronic) with (catalog\$3 or list\$4 or table\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 13:36
S17 8	332	S177 and @ad<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 13:37
S17 9	346	(interactive\$2) with (online or on-line or electronic) with (catalog\$3 or table\$1 or spreadsheet\$1 or spread-sheet\$1 or (spread adj sheet\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 13:39
S18 0	208	S179 and @ad<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR.	OFF	2006/01/27 14:43
S18 1	4	S180 and ((interactive\$2) with (manipulat\$3 or reorganiz\$3 or sort\$3 or reorder\$3) with (catalog\$3 or table\$1 or spreadsheet\$1 or spread-sheet\$1 or (spread adj sheet\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 13:41
S18 2	4	S180 and ((interactive\$2) with (manipulat\$3 or reorganiz\$3 or sort\$3 or reorder\$3) with (catalog\$3 or table\$1 or spreadsheet\$1 or spread-sheet\$1 or listing\$1 or (spread adj sheet\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 13:41
S18 3	185	((interactive\$2) with (manipulat\$3 or reorganiz\$3 or sort\$3 or reorder\$3) with (catalog\$3 or table\$1 or spreadsheet\$1 or spread-sheet\$1 or listing\$1 or (spread adj sheet\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 13:59

Page 19

S18 4	6	((interactive\$2) with (ecommerce or (electronic adj commerce)) with (catalog\$3 or table\$1 or spreadsheet\$1 or spread-sheet\$1 or listing\$1 or (spread adj sheet\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 14:32
S18 5	236	(display\$3 and manipulat\$3) with (lists)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 14:36
S18 6	1	(display\$3 and manipulat\$3) with (lists with (column\$1 or row\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 14:33
S18 7	94	(display\$3 and merg\$3) with (lists)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 14:41
S18 8	132	(tabular with ((search\$3 or query\$3) with result\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	OFF	2006/01/27 14:42
518 9	56	S188 and @ad<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 15:05
S19 0	29	S189 and dynamic\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 15:02
S19 1	3068	(dynamic or interactive) with report\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 15:02
S19 2	1889	S191 and @ad<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 15:05
S19 3	4794	(online or web or html or interactive) near (table\$1 or grid\$1 or list\$1 or spreadsheet\$1 or spread-sheet\$1 or (spread adj sheet\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ÖR	OFF	2006/01/31 08:19

S19 4	2570	S193 and @ad<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/31 08:19
S19 5	1048	S194 and @pd<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/31 08:20
S19 6	68990	("83").CLAS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/31 08:20
S19 7	175261	("73").CLAS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/31 08:20
S19 8	26	S195 and S196	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/31 08:20
S19 9	1022	S195 not S198	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/31 08:21
S20 0	5	S197 and S199	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/31 08:21
S20 1	1017	S199 not S200	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/31 08:21
S20 2	117	S201 and commerce	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/31 08:28
\$20 3	3	S202 not list\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/31 08:52

, ,			-			
S20 4	2607	(object adj attribute)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/31 08:52
S20 5	259	(object adj attribute) with table\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	OFF	2006/01/31 08:52
S20 6	2	((object adj attribute) with table\$1) same commerce	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/31 08:52
S20 7	118559	(merg\$3 or combin\$3 or aggregat\$3) with (row\$1 or column\$1 or cell\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/02 14:30
S20 8	79696	S207 and @ad<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/02 14:31
S20 9	362	((merg\$3 or combin\$3 or aggregat\$3) with (row\$1 or column\$1 or cell\$1)) with (attribute\$1 or metadata\$1 or meta-data\$1 or (meta adj data\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/02 14:31
S21 0	247	S209 and @ad<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/02 14:32
S21 1	132	S210 and @pd<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/02 15:31
S21 2	1	S211 and commerce	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/02 14:34
S21 3	47	S211 and report\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/02 15:29

			, 			
S21 4	3	concatinat\$3 with (row\$1 or column\$1 or cell\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/02 15:30
S21 5	1648	concatenat\$3 with (row\$1 or column\$1 or cell\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/02 15:31
S21 6	1126	concatenat\$3 near5 (row\$1 or column\$1 or cell\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/02 15:31
S21 7	491	S216 and @pd<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/02 16:03
S21 8	68	S217 and ((combin\$3 or group\$3 or concatenat\$3) near (column\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/02 15:45
S21 9	85	S217 and ((combin\$3 or group\$3 or concatenat\$3) near (row\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/02 16:02
S22 0	409	(database adj filter\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/02 16:02
S22 1	121	S220 and @pd<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/02 16:03
S22 2	35	S221 and (row\$1 and column\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/02 16:03
S22 3	432	(715/509,503,505).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/03 15:41

			···			,
S22 4	3947	(707/101,2,7).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/03 15:41
S22 5	1222	(705/27,35).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/03 15:41
S22 6	5502	S223 S224 S225	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/03 15:41
S22 7	689	S226 and (catalog\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/03 15:41
S22 8	142	(table\$1 near (refin\$3 or refinement\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/08 15:28
S22 9	61	S228 and (inventor\$3 or catalog\$1 or list\$1 or asset\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/08 15:31
S23 0	43	S229 and (interactiv\$3 or dynamic\$4 or active\$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/08 15:29
S23 1	45	S229 and (interactiv\$3 or interaction\$1 or dynamic\$4 or active\$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/08 15:36
S23 2	96090	(table\$1 with (inventory\$1 or inventories or catalog\$1 or catalogue\$1 or list\$1 or asset\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/08 15:31
S23 3	. 2	("2002/0116417").URPN.	USPAT	OR	OFF	2006/09/08 15:34

				· —		
S23 4	0	interactive adj table adj manipulation	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/08 15:50
S23 5	122365	(product\$1 or merchandise) with compar\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/08 15:51
S23 6	155	((product\$1 or merchandise) with compar\$4) with (catalog\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	OFF	2006/09/08 15:52
S23 7	2	((product\$1 or merchandise) with compar\$4) with (interactive\$3 with (catalog\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/08 15:55
S23 8	8946	(product\$1 or merchandise) near (catalogue\$1 or catalog\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/08 15:55
S23 9	746	S238 and (interactive\$2 and table\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/08 15:56
S24 0	9	S238 and (interactive\$2 and table\$1 and (combin\$3 with (column\$1 or row\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/08 15:56
S24 1	495394	(interactive electronic catalog\$1).ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 15:01
S24 2	2	("6,324,536").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 15:31
S24 3	2	("5,943,052").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 15:31

S24 4	46928	group\$3 and row\$1 and column\$1	US-PGPUB	OR	OFF	2006/10/03 13:09
S24 5	30306	S244 and (table\$1 or spreadsheet\$1)	US-PGPUB	OR	OFF	2006/10/03 13:09
S24 6	12504	(group\$3 and expand\$3 and (row\$1 and column\$1))	US-PGPUB	OR	OFF	2006/10/03 13:09
S24 7	1102	(group\$3 and expand\$3 and (row\$1 and column\$1) and (spreadsheet\$1))	US-PGPUB	OR	OFF	2006/10/03 13:10
S24 .8	1011	(group\$3 and expand\$3 and (row\$1 and column\$1) and (spreadsheet\$1) and table\$1)	US-PGPUB	OR	OFF	2006/10/03 13:10
S24 9	370	(group\$3 and expand\$3 and (row\$1 and column\$1) and (spreadsheet\$1) and (table\$1 near data\$1))	US-PGPUB	OR	OFF	2006/10/03 13:10
S25 0	291	(group\$3 and expand\$3 and (row\$1 and column\$1) and (spreadsheet\$1) and (table\$1 near data\$1) and cell\$1)	US-PGPUB	OR	OFF	2006/10/03 13:10
S25 1	286	(group\$3 and expand\$3 and (row\$1 and column\$1) and (spreadsheet\$1) and (table\$1 near data\$1) and cell\$1 and (add\$3 or delet\$3 or remov\$3))	US-PGPUB	OR	OFF	2006/10/03 13:13
S25 2	69	S251 and @ad<="20020131"	US-PGPUB	OR	OFF	2006/10/03 13:13
S25 3	16	S252 and ((electronic\$4 or "e") with commerc\$9)	US-PGPUB	OR	OFF	2006/10/03 13:12
S25 4	833	(715/509,503,505).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/03 13:12
S25 5	5755	(707/101,2,7).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/03 13:12
S25 6	3924	(705/27,35).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/03 13:13
S25 7	10435	S254 S255 S256	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR ·	OFF	2006/10/03 13:13

S25 8	1079	S257 and @ad<="20020131"	US-PGPUB	OR	OFF	2006/10/03 13:13
S25 9	12	S258 and ((group\$3 and expand\$3 and (row\$1 and column\$1) and (spreadsheet\$1) and (table\$1 near data\$1) and cell\$1 and (add\$3 or delet\$3 or remov\$3)))	US-PGPUB	OR	OFF	2006/10/03 13:14
S26 0	12	S258 and ((group\$3 and expand\$3 and (row\$1 and column\$1) and (spreadsheet\$1) and (table\$1 near data\$1) and cell\$1 and (add\$3 or delet\$3 or remov\$3)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/03 13:14